

AMENDMENTS TO THE CLAIMS

Claims 1-13. (Canceled)

14. (Currently Amended) A method for machining a scroll wrap, comprising:

forming a stationary scroll having ~~an~~ a stationary end plate and a stationary scroll wrap extending from said stationary end plate ~~thereof~~, said stationary scroll wrap of said stationary scroll having a side face,

forming a slewing scroll having ~~an~~ a slewing end plate and a slewing scroll wrap extending from said slewing end plate ~~thereof~~, said slewing scroll wrap of said slewing scroll having a side face,

wherein said side face of said stationary scroll wrap and said side face of said slewing scroll wrap are configured to slide with respect to each other in use,

wherein said side face of said stationary scroll wrap and said side face of said slewing scroll wrap each has a height extending from a respective one of said stationary end plate and said slewing end plate to a distal end; and

non-rotating-tool machining said side face of one of said stationary scroll wrap and said slewing scroll wrap by moving along a longitudinal direction of said one of said stationary scroll wrap and said slewing scroll wrap a non-rotational blade such that said height is machined at one time ~~is a portion of said side face, of said one of said stationary scroll wrap and said slewing scroll wrap, extending substantially for a height of said one of said stationary scroll wrap and said slewing scroll wrap,~~

wherein a cutting edge of the non-rotational blade has a profile which is transferred to said height such that an optimum shape is provided when the one of said stationary scroll wrap

and said slewing scroll wrap is driven in a compressor generating heat and pressure, and wherein
said cutting edge has a length greater than the height of said one of said stationary scroll wrap
and said slewing scroll wrap.

15. (Canceled)

16. **(Previously Presented)** The method for machining a scroll wrap according to claim 14,
further comprising:

cutting-machining by end milling both said side face of said one of said stationary scroll
wrap and said slewing scroll wrap and a surface of said end plate from which said one of said
stationary scroll wrap and said slewing scroll wrap extends,

wherein both said non-rotating-tool machining and said cutting-machining are performed
while the one of said stationary scroll and said slewing scroll having said one of said stationary
scroll wrap and said slewing wrap is fixed in a chuck.

17. **(Currently Amended)** The method for machining a scroll wrap according to claim 14,
further comprising:

machining a surface of one of said stationary end plate or said slewing end plate from
which said one of said stationary scroll wrap and said slewing scroll wrap extends with the same
non-rotational blade used for said non-rotating-tool machining of said side face of said one of
said stationary scroll wrap and said slewing scroll wrap; and

performing a finish cutting with a different non-rotational blade than that used for said-
~~Hale-machining non-rotating-tool machining~~ of said side face of said one of said stationary scroll

wrap and said slewing scroll wrap;

wherein said ~~Hale machining~~ non-rotating-tool machining, said machining, and said finish cutting are performed while the one of said stationary scroll and said slewing scroll having said one of said stationary scroll wrap and said slewing scroll wrap is fixed in a chuck.

18. **(Previously Presented)** The method for machining a scroll wrap according to claim 14, further comprising: simultaneously machining a surface of said end plate from which said one of said stationary scroll wrap and said slewing scroll wrap extends with the same non-rotational blade used for said non-rotating-tool machining of said side face of said one of said stationary scroll wrap and said slewing scroll wrap.

19. **(Previously Presented)** The method for machining a scroll wrap according to claim 14, further comprising: machining a surface of said end plate from which said one of said stationary scroll wrap and said slewing scroll wrap extends with a different non-rotational blade than that used for said non-rotating-tool machining of said side face of said one of said stationary scroll wrap and said slewing scroll wrap.

20. **(Previously Presented)** The method for machining a scroll wrap according to claim 14, wherein

said side face of said one of said stationary scroll wrap and said slewing scroll wrap includes an inner side face and an outer side face; and

wherein said non-rotating-tool machining is performed on said inner side face and said outer side face in any one of an order from said inner side face to said outer side face and an

order from said outer side face to said inner side face.

21. **(Previously Presented)** The method for machining a scroll wrap according to claim 14, wherein said non-rotating-tool machining of said side face of said one of said stationary scroll wrap and said slewing scroll wrap is performed such that a resulting surface roughness of said side face of said one of said stationary scroll wrap and said slewing scroll wrap measures one micrometer at most.

22-27. (Canceled)

28. **(Previously Presented)** The method for machining a scroll wrap according to claim 14, wherein

non-rotating-tool machining said side face of said one of said stationary scroll wrap and said slewing scroll wrap by moving said non-rotational blade along the longitudinal direction of said one of said stationary scroll wrap and said slewing scroll wrap results in an entirety of said side face of said one of said stationary scroll wrap and said slewing scroll wrap being machined in one pass of said non-rotational blade.

29. (Canceled)

30. **(Previously presented)** The method for machining a scroll wrap according to claim 28, further comprising:

cutting-machining by end milling both said side face of said one of said stationary scroll wrap and said slewing scroll wrap and a surface of said end plate from which said one of said stationary scroll wrap and said slewing scroll wrap extends,

wherein both said non-rotating-tool machining and said cutting-machining are performed while the one of said stationary scroll and said slewing scroll having said one of said stationary scroll wrap and said slewing wrap is fixed in a chuck.

31. **(Currently Amended)** The method for machining a scroll wrap according to claim 28, further comprising:

machining a surface of one of said stationary end plate or said slewing end plate from which said one of said stationary scroll wrap and said slewing scroll wrap extends with the same non-rotational blade used for said ~~Hale-machining non-rotating-tool machining~~ of said side face of said one of said stationary scroll wrap and said slewing scroll wrap; and

performing a finish cutting with a different non-rotational blade than that used for said ~~Hale-machining non-rotating-tool machining~~ of said side face of said one of said stationary scroll wrap and said slewing scroll wrap;

wherein said ~~Hale-machining non-rotating-tool machining~~, said machining, and said finish cutting are performed while the one of said stationary scroll and said slewing scroll having said one of said stationary scroll wrap and said slewing scroll wrap is fixed in a chuck.

32. **(Previously Presented)** The method for machining a scroll wrap according to claim 28, further comprising: simultaneously machining a surface of said end plate from which said one of said stationary scroll wrap and said slewing scroll wrap extends with the same non-rotational blade used for said non-rotating-tool machining of said side face of said one of said stationary scroll wrap and said slewing scroll wrap.

33. **(Previously Presented)** The method for machining a scroll wrap according to claim 28, further comprising: machining a surface of said end plate from which said one of said stationary scroll wrap and said slewing scroll wrap extends with a different non-rotational blade than that used for said non-rotating-tool machining of said side face of said one of said stationary scroll wrap and said slewing scroll wrap.

34. **(Previously Presented)** The method for machining a scroll wrap according to claim 28, wherein

said side face of said one of said stationary scroll wrap and said slewing scroll wrap includes an inner side face and an outer side face; and wherein said non-rotating-tool machining is performed on said inner side face and said outer side face in any one of an order from said inner side face to said outer side face and an order from said outer side face to said inner side face.

35. **(Previously Presented)** The method for machining a scroll wrap according to claim 28, wherein said non-rotating-tool machining of said side face of said one of said stationary scroll wrap and said slewing scroll wrap is performed such that a resulting surface roughness of said side face of said one of said stationary scroll wrap and said slewing scroll wrap measures one micrometer at most.